0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form PCT/RO/101 PCT Request	
0-4-1	Prepared Using	PCT-SAFE
0-5	Petition	Version 3.50 (Build 0002.173)
	The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	Korean Intellectual Property Office (RO/KR)
0-7	Applicant's or agent's file reference	05FLWW114
	Title of Invention	CONDENSING APPARATUS OF DISH WASHER
]	Applicant	THE TAXABLES OF DISH WASHER
11-1	This person is	applicant only
1-2	Applicant for	
I-4	Name	all designated States except US
i-5	Address	LG ELECTRONICS, INC.
		20, Yoido-Dong, Youngdungpo-ku Seoull05-875
		Republic of Korea
-6	State of nationality	KR
-7	State of residence	KR
-8	Telephone No.	
-9	Facsimile No.	82-2-526-4605
10	e-mail	82-2-578-0655
		webmaster_e@lge.com
	Applicant and/or inventor This person is	
1	•	applicant and inventor
- 1	Applicant for	US only
	Name (LAST, First)	KIM, Yong Hee
1-5	Address	H-111, LG Life Office,
		Gaeumjeong-dong
1		Changwon-si, Gyeongsangnam-do641-110
		Republic of Korea
1		KR
1-7 5	State of residence	KR

PCT REQUEST

- -		in the second se
IV-	address for correspondence	
	The person identified below is heret has been appointed to act on behalf the applicant(s) before the competer international Authorities as:	, agent
IV-1	-1 Name (LAST, First)	
IV-1	1	HAW, Yong Noke
		8th Fl. Songchon Bldg., 642-15, Yeoksam-dong, kangnam-ku Seoull35-080 Republic of Korea
IV-1-	1.00	82-2-2185-5151
IV-1-	4 Facsimile No.	
IV-1-	5 e-mail	82-2-2185-5159
IV-1-6	6 Agent's registration No.	mail@sunyoungpat.com
V	DESIGNATIONS	9-1998-000616-9
V-1	The filing of this request constitutes	
V-2	all Contracting States bound by the PCT on the International filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents. Item V-2 may be used to every the	
	(irrevocably) the designations concerned in order to avoid the ceasing of the effect, under the national law, of an earlier national application from which priority is claimed. As to the consequences of such national law provisions in these and certain other States, see Designations in PCT-SAFE Help.	KR .
VI-1	Priority claim of earlier national	
VI-1-1	application Filing date	
VI-1-2	Number	12 October 2004 (12.10.2004)
VI-1-3	Country	10-2004-0081272
VI-2		RR
	Bureau a certified copy of the earlier application(s) identified above as litem(s):	VI-1
VII-1	International Searching Authority Chosen	Austrian Patent Office (ISA/AT)

PCT REQUEST

VIII	Declarations	Number of declarations	
VIII-1	inventor	-	
VIII-2	entitlement, as at the international filing date, to apply for and be granted a patent	-	
VIII-3	entitlement, as at the International filing date, to claim the priority of the earlier application	-	
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-	
V 11i-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	
IX .	Check list	number of sheets	
IX-1	Request (including declaration sheets)	4	electronic file(s) attached
IX-2 IX-3	Description	8	/
	Claims	3	/
IX-4	Abstract	1	1
IX-5	Drawings		/
X-7'	TOTAL	4	1
	Accompanying Items	20	
X-8	Fee calculation sheet	paper document(s) attached	electronic file(s) attached
X-9	<u> </u>	-	
	Original separate power of attorney	-	
X-11	Copy of general power of attorney		/
K-17	PCT-SAFE physical media		/
(-19	Figure of the drawings which should accompany the abstract		-
(-20	Language of filing of the international papelication	Corean	
-1	Signature of applicant, agent or common representative		
1-1	Name (LAST, First)		
1-2	Name of signatory		
	Capacity		

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FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later, but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/AT
10-6	Transmittal of search copy delayed until search fee is paid	15A/AT

FOR INTERNATIONAL BUREAU USE ONLY

11-1 Date of receipt of the record copy by the International Bureau		
	the state of the s	<u> </u>

PCT POWER OF ATTORNEY

0-1	PCT Power of Attorney (for an international application filed under the Patent Cooperation Treaty) (PCT Rule 90.4)	
0-1-1	Prepared Using	PCT-SAFE
		Version 3.50 (Build 0002.173)
1	The undersigned applicant(s)	KIM, Yong Hee
1-1-1	hereby appoints (appoint) the following person	HAW, Yong Noke 8th Fl. Songchon Bldg., 642-15, Yeoksam-dong, kangnam-ku Seoull35-080 Republic of Korea
1-2	88	agent
1-3	to represent the undersigned before	all the competent International Authorities
1-4	in connection with the international application identified below:	
-4-1	Title of Invention	CONDENSING APPARATUS OF DISH WASHER
-4-2	Applicant's or agent's file reference	05FLWW114
-4-3	International application number (if already available)	
4-4	filed with the following Office as receiving Office	Korean Intellectual Property Office (RO/KR)
-5	and to make or receive payments on behalf of the undersigned	

PCT POWER OF ATTORNEY

2-1	Signature of applicant, age common representative	nt or
	- The Copies of the Copies	•
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	:	
- 1		
1		
- 1		
Ì		
- 1		
- 1		
-1	Name (LAST, First)	RTM Your Has
2 1	Name of signatory	KIM, Yong Hee
	Papacity Date	
		06 October 2005 (06.10.2005)

PCT (ANNEX - FEE CALCULATION SHEET)

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(This sheet is not part of and does not count as a sheet of the international application)

0	For receiving Office use only		T		
0-1	International Application No.				
0-2	Date stamp of the receiving Office		 		
					
0-4	Form PCT/RO/101 (Annex)				
_	PCT Fee Calculation Sheet			_	
0-4-1	Prepared Using		PCT-SAFE		
			L	(Build 0002.17	~ \
0-9	Applicant's or agent's file reference	Ce	05FLWW114	(Dulld 0002.17	3)
2	Applicant		LG ELECTRONIC	C TNO	
12	Calculation of prescribed fees		fee amount/multiplier		
12-1	Transmittal fee	Ŧ	c)	Total amounts (KRW)	
12-2-1	Search fee	S	<u> </u>	45000	
12-2-2		- 1	_ ₽	264000	
12-3	" Search to be carried out	by	AT		
12-3	international filing fee			·	
	(first 30 sheets)	н	1126000		
12-4	Remaining sheets		0		
12-5	Additional amount	(X)	<u> </u>		
12-6	Total additional amount	12			
12-7	11 + 12 =	+	0		
12-12	Electronic Filing reduction (Full)		1126000		
12-13		R	-256000		
	Total International filing fee (i-R)	1	₽	870000	·
12-14	Fee for priority document	T			
[Number of priority documents requested	1			•
-15	Fee per document (X) ō			
-16	Total and all of	P	5		
-17	TOTAL FEES PAYABLE (T+S+I+P)	+			
	Mode of payment	-	<u></u>	1179000	
		C	ash		

Paper Copy ((NOT for submission)

13-2-1	Validation messages Request	Green?
·		A translation of the int'l application into (one of) the following language(s) must be furnished within one month of the date of receipt by the receiving Office: German, English, French
13-2-2	Validation messages Request	Green? Please note that the entire request (including the title of invention) must be in English
13-2-2	Validation messages States	Green? Please note that the following States have NOT been designated: KR.
13-2-7	Validation messages Contents	Green? Figure of the drawings which should accompany the abstract not specified. Please verify.
 	Validation messages Contents	Green? Reference number for attached copy of general power of attorney not indicated.
13-2-8	Validation messages Fees	Green? Please verify that modified fee amounts are correct.

PATENT COOPERATION TREAL 1

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

ļ	cant's or agent's file reference 05FLWW114	FOR FURTHER ACTION	see Form PCT/ISA/220
Interna	ntional application No. CT/KR 2005/003318	International filing date (day/month/year) 6 October 2005 (06.10.2005)	s well as, where applicable, item 5 below. (Earliest) Priority Date (day/month/year)
Applica	ant	LG ELECTRONICS INC.	12 October 2004 (12.10.2004)
		prepared by this International Searching Auth ransmitted to the International Bureau.	ority and is transmitted to the applicant
This in	ternational search report consists of	fatoral of 5 shows	• .
1. Rasia	of the report	copy of each prior art document cited in this	report.
a. '	With regard to the language, the in- anguage in which it was filed, unle	ternational search was carried out on the basis	s of the international application in the
ъ. [to this Authority (F	earch was carried out on the basis of a translated translated. 1(b)).	tion of the international application furnished
		and/or amino acid sequence disclosed in the	international application, see
2.			Continuation of this firm -1
3. 4. With r	Unity of invention is lacking	unsearchable (see continuation of this first shapes)	neet)
	the text is approved as submit		
	the text has been established b	by this Authority to read as follows:	
		y and treat as follows:	
5. With red	gard to the abstract,	•	
Ĺ	the text is approved as submitte	d by the and the	
1	the text has been ectablished as		
	sheet. The applicant may, within comments to this Authority.	cording to Rule 38.2(b), by this Authority as none month from the date of mailing of this i	it appears in the continuation of this first international search report, submit
. With reg	ard to the drawings,		
	the figure of the drawings to be	published with the abstract is Figure No. 3	
a.	as suggested by the annlicant	3 10 150 110. 3	1
a. [_	- as suggested by the applicant.		
a. [_	as selected by this Authority, bec	ause the applicant failed to suggest a figure.	

INTERNA ONAL SEARCH REPORT

International application No. PCT/KR 2005/003318

Continuation of first sheet

Continuation No. IV:

Text of the abstract

(Continuation of item 5 of the first sheet)

A condensing apparatus of a dish washer (100) is provided. The condensing apparatus includes a blower (210) and an air duct (200). The blower (210) suctions vapor form inside a tub (110) of the dish washer. The air duct (200) is connected to the blower (210), and has a vapor passage (207) formed therein through which the vapor flows and in which condensed water is formed. The vapor passage (207) has a ridge (203) formed thereon to stop the

IPC7. A	SSIFICATION OF SUBJECT MATTER 47L 15/48		PCT/KR 2005/003318
According	g to International Patent Classification (IPC) or to	host	
B. FIEL	DS SEARCHED	both national classification and IP(<u> </u>
	documentation searched (classification system for	November 1	
IPC': A	47L	nowed by classification symbols)	
Document	ation searched others to		
	ation searched other than minimum documentation	n to the extent that such documents	are included in the fields searched
Epodoc	data base consulted during the international search	name of data base and, where pro	acticable, search terms used)
		·	, comen terms used)
C. DOCL	MENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, wh	PTP annramina - 5.1	
	1		
Y	US5337500 A (ENOKIZONO) 16 abstract, figure 1.	August 1994 (16.08.1994	1, 2, 5, 7-10, 13 15-17, 19, 20
	_		
Y	DE19946456 A1 (BSH BOSCH SII GMBH) 5 April 2001 (05.04.2001) abstract, figures 1-5.	EMENS HAUSGERAETE)	1, 2, 5, 7-10, 13, 15-17, 19, 20
Y	DE3538305 A1 (BOSCH-SIEMENS 30 April 1987 (30.04.1987) abstract, figures 2, 3.	S HAUSGERAETE GMBH) 1, 2, 7-10, 15- 17, 20
	-		
<u>_</u> ZI			
= rurther do	ocuments are listed in the continuation of Box C.	See patent family ann	ex.
to be of particle to be of particle applications of the comment of the comment of the comment of the comment of the priority o	regories of cited documents: defining the general state of the art which is not considerated relevance lication or patent but published on or after the internation which may throw doubts on priority claim(s) or which the publication date of another citation or of on (as specified) referring to an oral disclosure, use, exhibition or of outlished prior to the international filing date but later that claimed	in the record of	d after the international filing date or conflict with the application but cited ole or theory underlying the invention relevance; the claimed invention well or cannot be considered to involve the document is taken alone relevance; the claimed invention involve an inventive step when the with one or more other such nation being obvious to a person
30 L	al completion of the international search December 2006 (30.12.2006)	Date of mailing of the internation	same patent family onal search report 06 (13.01.2006)
	ng address of the ISA/AT Austrian Patent Office ner Straße 87, A-1200 Vienna	Authorized officer	REK G.
	43 / 1 / 534 24 / 535	Telenkan at 40 fee	1
		Telephone No. +43 / 1 / 534	24 / 352

INTERNA ONAL SEARCH REPORT

International application No. PCT/KR 2005/003318

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Pol-
Y	DE10023346 A1 (DIEHL AKO STIFTUNG GMBH & CO) 15 November 2001 (15.11.2001) abstract, figures 1-3.	Relevant to clain
Y	DE8026939 U1 (BOSCH-SIEMENS HAUSGERAETE GMBH) 18 March 1982 (18.03.1982) figure 2.	5, 13

INTERNATION SEARCH REPORT Information on patent family members

In rional application No. PCI/KR 2005/003318

Patent document ci in search report		search report	Publication date	Patent family member(s)			Publication
ĐE	A	10023346		US PL ES	A1 A1 T3	2003140517 361313 2225535T	2003-07-31 2004-10-04
				WO EP DE	A2 A2 D1	0185003 1284627 50103120D	.2005-03-16 2001-11-15 2003-02-26
DE	A1 A1	19946456	2001-04-05				2004-09-09
DE	A	3538305 8026939 0 1	1987-04-30	FR	A1	none 2589056	1987-04-30
US	A	5337500	1994-08-16			попе	
				GB JP	A A	2263969 5211978	1993-08-11 1993-08-24

PATENT COOPERATION TREATY

To: HAW, YONG-NO	(E		PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)				
8th Fl., Songchon dong Kangnam-gu, Seo Republik of Korea	Bldg.,642-1:	5 Yoksam-					
				Date of mailing 1 (day/month/year)	3 January 2006 (13.01.2006)		
Applicant's or agent's fil	le reference 5FLWW114			FOR FURTHER ACTION See paragraph 2 below			
International application PCT/KR 2005/	No. 003318	International filing 6 October 2	g d 20(ate (day/month/year) 05 (06.10.2005)	Priority Date (day/month/year) 12 October 2004 (12.10.2004)		
International Patent Class	sification (IPC)			cation and IPC 'L 15/48			
Applicant		LG ELEC	C1	RONICS INC.			
1. This opinion contains indications relating to the following items: Cont. No. I Basis of the opinion							
Name and mailing address of the ISA/AT Austrian Patent Office				Authorized officer	BABUREK G.		
Dresdner Straße 87, A-1200 Vienna Facsimile No. +43 / 1 / 534 24 / 535				Telephone No. +43 / 1 / 534 24 / 352			

N OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/KR 2005/003318

Continuation No. I

Basis of the opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed.

Continuation No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims 1-20 Claims	YES NO
Inventive step (IS)	Claims 3, 4, 6, 11, 12, 14, 18 Claims 1, 2, 5, 7-10, 13, 15-17, 19, 20	YES
Industrial applicability (IA)	Claims 1-20 Claims	YES

2. Citations and explanations:

The following documents have been cited in the Search Report:

D1: US5337500 A D2: DE19946456 A1 D3: DE3538305 A1 D4: DE10023346 A1 D5: DE8026939 U1

Documents D1 and D2 disclose a condensing apparatus of a dishwasher for condensing vapour inside a dish washer tub comprising a blower for suctioning the vapour from inside the tub and an air duct connected to the blower and forming a vapour passage for circulating the vapour and generating condensed water, according to the characteristic features of claims 1, 9 and 16.

Document D3 discloses a condensing apparatus of a dishwasher comprising a vapour passage including a ridge formed thereon for stopping the condensed water according to claims 1, 9 and 16.

For a man skilled in the art it is obvious to combine one of the documents D1 and D2 with document D3. Therefore the subject matter of claims 1, 9 and 16 is novel with respect to each

Form PCT/ISA/237 (continuation (0)) (January 2004)

WRIT. OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/KR 2005/003318

one of the documents D1 - D3, but does not involve an inventive step according to a combination of either D1 or D2 with D3.

Document D3 further discloses a condensing apparatus comprising a vapour passage forming a meander line according to claims 2, 10 and 17.

Documents D1 and D2 also show a condenser fan and a dryer fan according to the features of claims 7 and 15, which are driven together by a single motor according to claims 8 and 20.

Therefore the subject matter of claims 2, 10 and 17, respectively 7, 8, 15 and 20 is novel with respect to each one of the documents D1 - D3, but does not involve an inventive step according to a combination of either D1 or D2 with D3.

Documents D4 and D5 further disclose a condensing apparatus wherein the air duct includes a condensed water discharge port and a split type vapour exhaust port, according to claims 5 and 13. D4 also shows that the condensed water discharge port is lower than the vapour exhaust port, according to claim 19.

Therefore the subject matter of claims 5, 13 and 19 is novel with respect to each one of the documents D1 - D5, but does not involve an inventive step according to a combination of either D1 or D2 with document D4, respectively D5.

Consequently it has to be considered that only the subject matter of claims 3, 4, 6, 11, 12, 14 and 18 is novel with respect to each one of the prior art documents and also involves an inventive step according to these documents.

Industrial applicability is given.

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